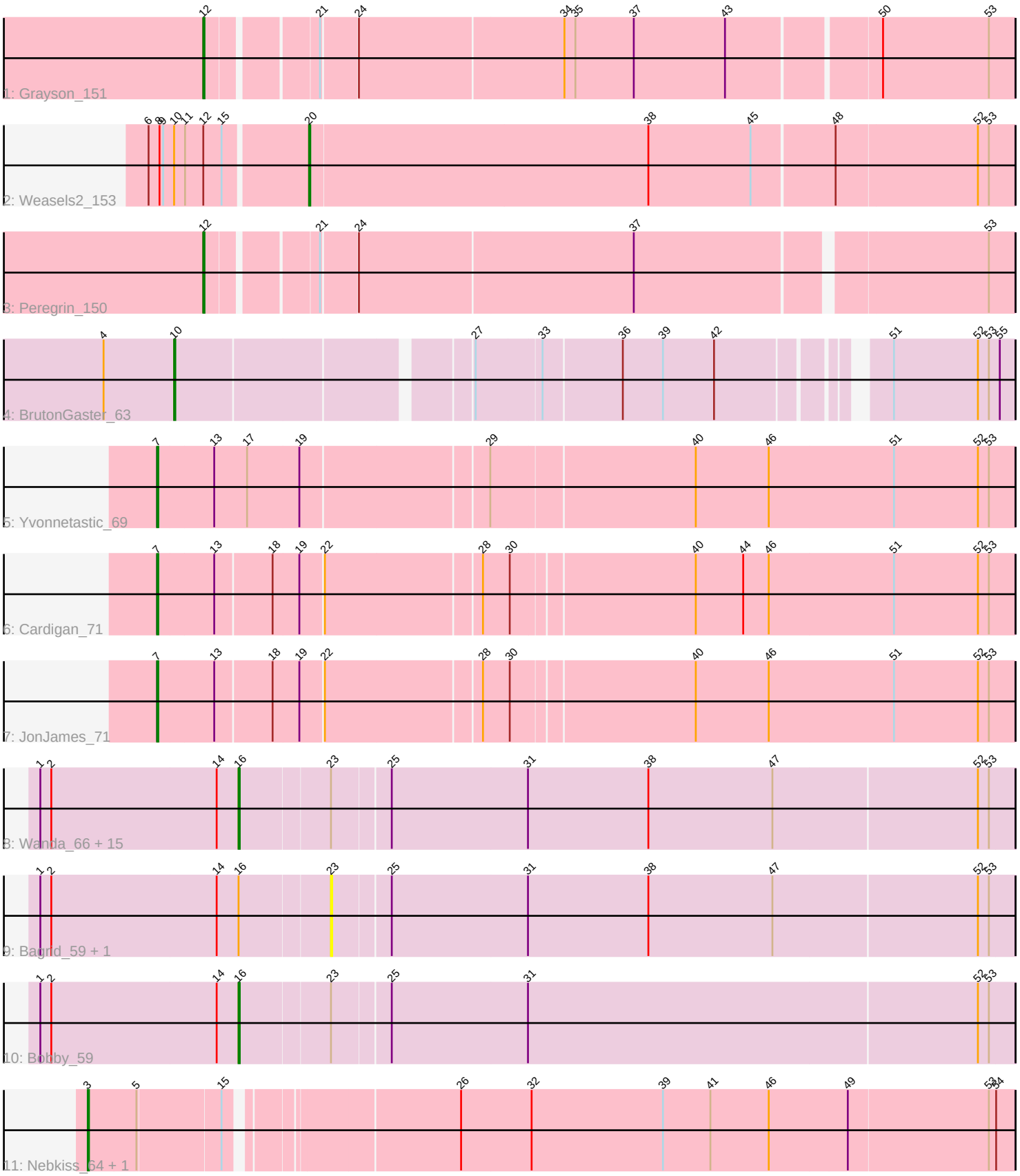
Pham 347926


1: Grayson_151
2: Weasels2_153
3: Peregrin_150
4: BrutonGaster_63
5: Yvonnetastic_69
6: Cardigan_71
7: JonJames_71
8: Wanda_66 + 15
9: Bagrid_59 + 1
10: Bobby_59
11: Nebkiss_64 + 1

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347926 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347926 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Grayson_151
• Track 2 : Weasels2_153
• Track 3 : Peregrin_150
• Track 4 : BrutonGaster_63
• Track 5 : Yvonnetastic_69
• Track 6 : Cardigan_71
• Track 7 : JonJames_71
• Track 8 : Wanda_66, DmpstrDiver_59, Kalah2_56, Minerva_66, Klein_60, JuicyJay_59, KashFlow_53, Duke13_63, Pound_60, Dallas_59, ThreeRngTarjay_58, Hannaconda_56, Schatzie_55, Beem_60, Optimus_65, Zelink_58
• Track 9 : Bagrid_59, Xiaokay_53
• Track 10 : Bobby_59
• Track 11 : Nebkiss_64, Gaia_63

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 16, it was called in 17 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beem_60, Bobby_59, Dallas_59, DmpstrDiver_59, Duke13_63, Hannaconda_56, JuicyJay_59, Kalah2_56, KashFlow_53, Klein_60, Minerva_66, Optimus_65, Pound_60, Schatzie_55, ThreeRngTarjay_58, Wanda_66, Zelink_58,

Genes that have the "Most Annotated" start but do not call it:
• Bagrid_59, Xiaokay_53,

Genes that do not have the "Most Annotated" start:
• BrutonGaster_63, Cardigan_71, Gaia_63, Grayson_151, JonJames_71, Nebkiss_64, Peregrin_150, Weasels2_153, Yvonnetastic_69,

Summary by start number:

Start 3:

• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gaia_63 (X), Nebkiss_64 (X),

Start 7:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cardigan_71 (DD), JonJames_71 (DD), Yvonnetastic_69 (DD),

Start 10:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_63 (CQ2),

Start 12:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Grayson_151 (CB), Peregrin_150 (CB),

Start 16:
• Found in 19 of 28 (67.9%) of genes in pham
• Manual Annotations of this start: 17 of 26
• Called 89.5% of time when present
• Phage (with cluster) where this start called: Beem_60 (J), Bobby_59 (J), Dallas_59 (J), DmpstrDiver_59 (J), Duke13_63 (J), Hannaconda_56 (J), JuicyJay_59 (J), Kalah2_56 (J), KashFlow_53 (J), Klein_60 (J), Minerva_66 (J), Optimus_65 (J), Pound_60 (J), Schatzie_55 (J), ThreeRngTarjay_58 (J), Wanda_66 (J), Zelink_58 (J),

Start 20:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weasels2_153 (CB),

Start 23:
• Found in 19 of 28 (67.9%) of genes in pham
• No Manual Annotations of this start.
• Called 10.5% of time when present
• Phage (with cluster) where this start called: Bagrid_59 (J), Xiaokay_53 (J),

Summary by clusters:

There are 5 clusters represented in this pham: X, DD, J, CQ2, CB,

Info for manual annotations of cluster CB:
•Start number 12 was manually annotated 2 times for cluster CB.
•Start number 20 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CQ2:
•Start number 10 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 7 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster J:
•Start number 16 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster X:
•Start number 3 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Bagrid_59 Start: 46493, Stop: 45942, Start Num: 23
Candidate Starts for Bagrid_59:
(1, 46727), (2, 46718), (14, 46583), (Start: 16 @46565 has 17 MA's), (23, 46493), (25, 46448), (31, 46337), (38, 46238), (47, 46136), (52, 45971), (53, 45962),

Gene: Beem_60 Start: 47131, Stop: 46508, Start Num: 16
Candidate Starts for Beem_60:
(1, 47293), (2, 47284), (14, 47149), (Start: 16 @47131 has 17 MA's), (23, 47059), (25, 47014), (31, 46903), (38, 46804), (47, 46702), (52, 46537), (53, 46528),

Gene: Bobby_59 Start: 46077, Stop: 45454, Start Num: 16
Candidate Starts for Bobby_59:
(1, 46239), (2, 46230), (14, 46095), (Start: 16 @46077 has 17 MA's), (23, 46005), (25, 45960), (31, 45849), (52, 45483), (53, 45474),

Gene: BrutonGaster_63 Start: 45653, Stop: 46276, Start Num: 10
Candidate Starts for BrutonGaster_63:
(4, 45596), (Start: 10 @45653 has 1 MA's), (27, 45875), (33, 45926), (36, 45989), (39, 46022), (42, 46064), (51, 46178), (52, 46247), (53, 46256), (55, 46265),

Gene: Cardigan_71 Start: 47897, Stop: 48574, Start Num: 7
Candidate Starts for Cardigan_71:
(Start: 7 @47897 has 3 MA's), (13, 47942), (18, 47987), (19, 48008), (22, 48026), (28, 48149), (30, 48170), (40, 48314), (44, 48353), (46, 48374), (51, 48476), (52, 48545), (53, 48554),

Gene: Dallas_59 Start: 46052, Stop: 45429, Start Num: 16
Candidate Starts for Dallas_59:
(1, 46214), (2, 46205), (14, 46070), (Start: 16 @46052 has 17 MA's), (23, 45980), (25, 45935), (31, 45824), (38, 45725), (47, 45623), (52, 45458), (53, 45449),

Gene: DmpstrDiver_59 Start: 46479, Stop: 45856, Start Num: 16
Candidate Starts for DmpstrDiver_59:
(1, 46641), (2, 46632), (14, 46497), (Start: 16 @46479 has 17 MA's), (23, 46407), (25, 46362), (31, 46251), (38, 46152), (47, 46050), (52, 45885), (53, 45876),

Gene: Duke13_63 Start: 46999, Stop: 46376, Start Num: 16
Candidate Starts for Duke13_63:

(1, 47161), (2, 47152), (14, 47017), (Start: 16 @46999 has 17 MA's), (23, 46927), (25, 46882), (31, 46771), (38, 46672), (47, 46570), (52, 46405), (53, 46396),

Gene: Gaia_63 Start: 42822, Stop: 42097, Start Num: 3
Candidate Starts for Gaia_63:
(Start: 3 @42822 has 2 MA's), (5, 42783), (15, 42717), (26, 42546), (32, 42489), (39, 42381), (41, 42342), (46, 42294), (49, 42231), (53, 42117), (54, 42111),

Gene: Grayson_151 Start: 83243, Stop: 83872, Start Num: 12
Candidate Starts for Grayson_151:
(Start: 12 @83243 has 2 MA's), (21, 83324), (24, 83351), (34, 83516), (35, 83525), (37, 83573), (43, 83648), (50, 83765), (53, 83852),

Gene: Hannaconda_56 Start: 41619, Stop: 40996, Start Num: 16
Candidate Starts for Hannaconda_56:
(1, 41781), (2, 41772), (14, 41637), (Start: 16 @41619 has 17 MA's), (23, 41547), (25, 41502), (31, 41391), (38, 41292), (47, 41190), (52, 41025), (53, 41016),

Gene: JonJames_71 Start: 47943, Stop: 48620, Start Num: 7
Candidate Starts for JonJames_71:
(Start: 7 @47943 has 3 MA's), (13, 47988), (18, 48033), (19, 48054), (22, 48072), (28, 48195), (30, 48216), (40, 48360), (46, 48420), (51, 48522), (52, 48591), (53, 48600),

Gene: JuicyJay_59 Start: 48265, Stop: 47642, Start Num: 16
Candidate Starts for JuicyJay_59:
(1, 48427), (2, 48418), (14, 48283), (Start: 16 @48265 has 17 MA's), (23, 48193), (25, 48148), (31, 48037), (38, 47938), (47, 47836), (52, 47671), (53, 47662),

Gene: Kalah2_56 Start: 46674, Stop: 46051, Start Num: 16
Candidate Starts for Kalah2_56:
(1, 46836), (2, 46827), (14, 46692), (Start: 16 @46674 has 17 MA's), (23, 46602), (25, 46557), (31, 46446), (38, 46347), (47, 46245), (52, 46080), (53, 46071),

Gene: KashFlow_53 Start: 41240, Stop: 40617, Start Num: 16
Candidate Starts for KashFlow_53:
(1, 41402), (2, 41393), (14, 41258), (Start: 16 @41240 has 17 MA's), (23, 41168), (25, 41123), (31, 41012), (38, 40913), (47, 40811), (52, 40646), (53, 40637),

Gene: Klein_60 Start: 46697, Stop: 46074, Start Num: 16
Candidate Starts for Klein_60:
(1, 46859), (2, 46850), (14, 46715), (Start: 16 @46697 has 17 MA's), (23, 46625), (25, 46580), (31, 46469), (38, 46370), (47, 46268), (52, 46103), (53, 46094),

Gene: Minerva_66 Start: 48547, Stop: 47924, Start Num: 16
Candidate Starts for Minerva_66:
(1, 48709), (2, 48700), (14, 48565), (Start: 16 @48547 has 17 MA's), (23, 48475), (25, 48430), (31, 48319), (38, 48220), (47, 48118), (52, 47953), (53, 47944),

Gene: Nebkiss_64 Start: 41433, Stop: 40708, Start Num: 3
Candidate Starts for Nebkiss_64:
(Start: 3 @41433 has 2 MA's), (5, 41394), (15, 41328), (26, 41157), (32, 41100), (39, 40992), (41, 40953), (46, 40905), (49, 40842), (53, 40728), (54, 40722),

Gene: Optimus_65 Start: 48133, Stop: 47510, Start Num: 16
Candidate Starts for Optimus_65:
(1, 48295), (2, 48286), (14, 48151), (Start: 16 @48133 has 17 MA's), (23, 48061), (25, 48016), (31, 47905), (38, 47806), (47, 47704), (52, 47539), (53, 47530),

Gene: Peregrin_150 Start: 83136, Stop: 83759, Start Num: 12
Candidate Starts for Peregrin_150:
(Start: 12 @83136 has 2 MA's), (21, 83217), (24, 83244), (37, 83466), (53, 83739),

Gene: Pound_60 Start: 48552, Stop: 47929, Start Num: 16
Candidate Starts for Pound_60:
(1, 48714), (2, 48705), (14, 48570), (Start: 16 @48552 has 17 MA's), (23, 48480), (25, 48435), (31, 48324), (38, 48225), (47, 48123), (52, 47958), (53, 47949),

Gene: Schatzie_55 Start: 46008, Stop: 45385, Start Num: 16
Candidate Starts for Schatzie_55:
(1, 46170), (2, 46161), (14, 46026), (Start: 16 @46008 has 17 MA's), (23, 45936), (25, 45891), (31, 45780), (38, 45681), (47, 45579), (52, 45414), (53, 45405),

Gene: ThreeRngTarjay_58 Start: 47294, Stop: 46671, Start Num: 16
Candidate Starts for ThreeRngTarjay_58:
(1, 47456), (2, 47447), (14, 47312), (Start: 16 @47294 has 17 MA's), (23, 47222), (25, 47177), (31, 47066), (38, 46967), (47, 46865), (52, 46700), (53, 46691),

Gene: Wanda_66 Start: 47006, Stop: 46383, Start Num: 16
Candidate Starts for Wanda_66:
(1, 47168), (2, 47159), (14, 47024), (Start: 16 @47006 has 17 MA's), (23, 46934), (25, 46889), (31, 46778), (38, 46679), (47, 46577), (52, 46412), (53, 46403),

Gene: Weasels2_153 Start: 87047, Stop: 87616, Start Num: 20
Candidate Starts for Weasels2_153:
(6, 86921), (8, 86930), (9, 86933), (Start: 10 @86942 has 1 MA's), (11, 86951), (Start: 12 @86966 has 2 MA's), (15, 86981), (Start: 20 @87047 has 1 MA's), (38, 87323), (45, 87407), (48, 87473), (52, 87587), (53, 87596),

Gene: Xiaokay_53 Start: 43858, Stop: 43307, Start Num: 23
Candidate Starts for Xiaokay_53:
(1, 44092), (2, 44083), (14, 43948), (Start: 16 @43930 has 17 MA's), (23, 43858), (25, 43813), (31, 43702), (38, 43603), (47, 43501), (52, 43336), (53, 43327),

Gene: Yvonnetastic_69 Start: 45478, Stop: 46161, Start Num: 7
Candidate Starts for Yvonnetastic_69:
(Start: 7 @45478 has 3 MA's), (13, 45523), (17, 45550), (19, 45592), (29, 45739), (40, 45901), (46, 45961), (51, 46063), (52, 46132), (53, 46141),

Gene: Zelink_58 Start: 47607, Stop: 46984, Start Num: 16
Candidate Starts for Zelink_58:
(1, 47769), (2, 47760), (14, 47625), (Start: 16 @47607 has 17 MA's), (23, 47535), (25, 47490), (31, 47379), (38, 47280), (47, 47178), (52, 47013), (53, 47004),